Table1: Rel A MSS L4 to RBR
MSS L4 Requirement Clean-Unit

MSS L4 Requirement Clean-Up using baseline 07-31-96

This table identifies the relationship between Level_4 and RBR

This table is for review purposes only.

RBR ID	REQ		RBR TEXT	REQ INTERP	L4 ID	REQ	REQ	REL	L4 TEXT	CLARIFIC
	KEY	TYPE				KEY	TYPE			
NOAA0700#A		interface	The ECS shall have the		C-MSS-	-143	interfac	A	The MSS shall interface with	
	3389		capability to send and the		10050		e		the Affiliated Data Centers	
			NMC shall have the						(ADC) to exchange data	
			capability to receive						identified in Table 5.1-1 as	
			requests for ancillary data						specified in ECS/ADC IRD,	
			to support ECS standard						219-CD-006.	
			product generation.							
NOAA0600#A		interface								
	5869		The SAAs shall have the							
			capability to send and the							
			ECS shall have the							
			capability to receive							
			Network Management							
			information.							
NOAA0610#A		interface								
	5872		The ECS shall have the							
			capability to send and the							
			SAAs shall have the							
			capability to receive							
			Network Management							
			information.							
NOAA0120#A		interface								
	2105		The SAAs shall have the							
			capability to send and the							
			ECS shall have the							
			capability to receive User							
			Authentication Requests.							
NOAA0140#A		interface								
	2108		The SAAs shall have the							
			capability to send and the							
			ECS shall have the							
			capability to receive User							
			Authentication Results.							

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ESN-0640#A	5339	functional	The ESN shall include management functions at each ECS element, equipment or gateway within the ESN.		C-MSS- 10090	-147	interfac e	A	The MSS shall interface with the Program Support Communications Network (PSCN) to exchange data identified in Table 5.1-1 as specified in ECS/PSCN IRD, 193-219-SE1-008.	
EOSD1600#B	6220	interface	The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS.	B: OTHER EDOS/EOC STATUS (AS APPLICABLE) . STATUS EXCHANGES BETWEEN GSFC + LARC DAACS & EDOS; ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS.	E-MSS- 10100	-148	interfac e	A	The MSS shall interface with the EDOS to exchange data identified in Table 5.1-1 as specified in EDOS/EGS IRD, 560-EDOS-0211.	
SMC-5325#A	4334	security	The LSM shall promulgate, maintain, authenticate, and monitor user and device accesses and privileges.							
EOSD1600#A	4825	interface	The ECS elements that interface with EDOS elements shall exchange element level status data with EDOS.	A: FOR STATUS EXCHANGES BETWEEN EOC AND EDOS CODAS AND TSS SUMMARY REPORTS FROM EDOS; ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS.						

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					077011			T age +	
EOSD1770#A		interface		A: limited	C-MSS-	-149	interfac	A	The MSS shall interface with
	4839		ECS elements shall	interface	10110		e		the International Partners (IP)
			exchange the following	testing with					for Data Interoperability to
			types of data at a minimum	ASTER					exchange data identified in
			with the IPs:	(selected					Table 5.1-1 as specified in
			a. Instrument command	planning and					ECS/IP IRD, 194-219-SE1-015.
			loads	scheduling					, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			b. Science data	data). Note:					
			c. Planning and scheduling	Instrument					
			data	command load					
			d. Directories	information is					
			e. Product Orders	included in					
			c. 11oddet Gracis	planning and					
				scheduling					
				data.					
EOSD2440#A		security		Gutui	C-MSS-	-218	functio	A	The MSS Management Data
LOSD2440#A	4845	security	Data base integrity		18040	-210	nal	73	Access Service shall maintain
	4043				10040		nar		the integrity of the management
			including prevention of data loss and corruption						database.
			shall be						database.
EGN. 1000#4		6 1	maintained.	4 3 6 1					
ESN-1000#A	5016	functional	THE FORM A	A: Manual					
	5216		The ESN network						
			management function shall						
			have the capability to build						
			histories for different types						
			of errors and events, and						
			the capability to analyze						
			errors and recommend						
			corrective action wherever						
			practical.						

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								- 4.80	01 / 0	
EOSD0500#A		functional		This "high						
	5598		ECS shall perform the	level"						
			following major functions:	requirement						
			a. EOS Mission Planning	covers almost						
			and Scheduling	all capabilities						
			b. EOS Mission Operations							
			c. Command and Control	ECS. Only						
			d. Communications and	selected						
			Networking	software and						
			e. Data Input	hardware						
			f. Data Processing	requirements						
			g. Data Storage	are mapped to						
			h. Data Distribution	this						
			i. Information	requirement.						
			Management	Additional						
			j. End-to-End Fault	software						
			Management	requirements						
			k. System Management	are mapped to						
			k. System Management	"lower level"						
				RBRs which						
				are more						
ECCED 2 1 10 IID				specific.						
EOSD2440#B	2005	security	D. I							
	3885		Data base integrity							
			including prevention of							
			data loss and corruption							
			shall be							
			maintained.							
EOSD1710#A		interface		A: NOAA	C-MSS-	955	functio	A	The Management Data Access	
	6456		ECS elements shall	ADC 1-way	18060		nal		Service shall provide the	
			exchange with	interoperability					capability for an application	
			ADCs/ODCs, such as	ECS to NOAA					operator to access management	
			NOAA and other data						data <u>via a log browser</u> .	
			processing and archiving							
			facilities, information							
			including the following:							
			a. Directories							
			b. Product Orders							
			c. Order Status							
			d. Science Data							
			e. Management Data							
ESN-0070#A		functional								
	6322		The ESN shall support the							
			intrasite elements data							
			flow requirements							
			identified in this							
			specification.							

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						r age o	
ESN-1000#A		functional		A: Manual			
	5216		The ESN network				
	0210		management function shall				
			have the capability to build				
			histories for different types				
			of errors and events, and				
			the capability to analyze				
			errors and recommend				
			corrective action wherever				
			practical.				
EOGDO 100 II A		D1.64	practical.				
EOSD3492#A		RMA					
	5096		RMA data shall be				
			maintained in a repository				
			accessible for logistics				
			analysis				
			and other purposes.				
SDPS0010#B		functional	and other purposes.				
SDF30010#D	5051	Tunctional	El appa i ii :i				
	5051		The SDPS shall provide				
			CSMS with operational,				
			data processing, data				
			quality and accounting				
			status.				
EOSD2430#A		security					
E00D2 1301111	4844	security	Data base access and				
	4044						
			manipulation shall				
			accommodate control of				
			user access and				
			update of security				
			controlled data.				
EOSD1710#B		interface		B: 2-way			
_ 3321,10,12	3873		ECS elements shall	interoperability			
	3013		exchange with	interoperatinty			
			ADCs/ODCs, such as				
			NOAA and other data				
			processing and archiving				
			facilities, information				
			including the following:				
			a. Directories				
			b. Product Orders				
			c. Order Status				
			d. Science Data				
			e. Management Data				

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RMA data shall be							
al	A: No						
The SDPS shall provide	accounting						
	are comming						
data processing and data							
al The ESN shall support the							
intrasite elements data							
specification.							
manipulation shall							
update of security							
ECS shall perform the	level"						
	requirement						
b. EOS Mission Operations	provided by						
d. Communications and							
Networking	software and						
	hardware						
	ara manaad ta						
g. Data Storage							
h. Data Distribution	this						
h. Data Distribution i. Information	this requirement.						
h. Data Distribution i. Information Management	this requirement. Additional						
h. Data Distribution i. Information Management	this requirement.						
h. Data Distribution i. Information Management j. End-to-End Fault	this requirement. Additional software						
h. Data Distribution i. Information Management j. End-to-End Fault Management	this requirement. Additional software requirements						
h. Data Distribution i. Information Management j. End-to-End Fault	this requirement. Additional software requirements are mapped to						
h. Data Distribution i. Information Management j. End-to-End Fault Management	this requirement. Additional software requirements are mapped to "lower level"						
h. Data Distribution i. Information Management j. End-to-End Fault Management	this requirement. Additional software requirements are mapped to "lower level" RBRs which						
h. Data Distribution i. Information Management j. End-to-End Fault Management	this requirement. Additional software requirements are mapped to "lower level"						
,	Data base access and manipulation shall accommodate control of user access and update of security controlled data. Tall ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing	maintained in a repository accessible for logistics analysis and other purposes. The SDPS shall provide CSMS with operational, data processing, and data quality. The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements	maintained in a repository accessible for logistics analysis and other purposes. A: No accounting The SDPS shall provide CSMS with operational, data processing, and data quality. The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement covers almost all capabilities provided by ECS. Only selected Networking e. Data Input f. Data Processing	maintained in a repository accessible for logistics analysis and other purposes. A: No accounting The SDPS shall provide CSMS with operational, data processing, and data quality. Tall The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement covers almost all capabilities provided by ECS. Only selected Networking c. Command and Control d. Communications and Networking e. Data Input f. Data Processing	maintained in a repository accessible for logistics analysis and other purposes. A: No The SDPS shall provide CSMS with operational, data processing, and data quality. The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement requirement all capabilities provided by ECS. Only selected software and Networking e. Data Input f. Data Processing	maintained in a repository accessible for logistics analysis and other purposes. A: No The SDPS shall provide CSMS with operational, data processing, and data quality. The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input hardware	maintained in a repository accessible for logistics analysis and other purposes. A: No accounting The SDPS shall provide CSMS with operational, data processing, and data quality. The ESN shall support the intrasite elements data flow requirements identified in this specification. Data base access and manipulation shall accommodate control of user access and update of security controlled data. This "high level" requirement covers almost all and SEOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing requirements

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-				CCR 70-0				1 age o		
SDPS0010#B	5051	functional	The SDPS shall provide CSMS with operational, data processing, data quality and accounting status.		C-MSS- 18070	221	functio nal	A	The MSS Management Data Access Service shall provide the capability to selectively access management data.	This refers to the capability to sort and filter events in the management logs.
EOSD0500#A	5598	functional	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RBRs which are more specific.	C-MSS- 18200	224	functio	A	The MSS Management Data Access Service shall provide the capability for an application via APIs to update fields in append information to the management database.	Applications log eventsvia API. MDA uses data in the logs to update the management database.
ESN-0910#B		functional		•						
	6346		The ESN fault management shall provide the capability to perform the following functions, at a minimum, both locally and at the SMC: a. set, view, and change alert threshold values b. enable and disable alert notifications (alarms) within a system c. enable and disable event reports within a system d. manage error and event logging files							

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SMC-1000#A		functional		A:			
51110 1000111	4214	ranctionar	The SMC shall provide	Partial/automat			
	7217		application programming	ed - except for			
			interfaces (APIs) for the	item c.			
				item c.			
			monitoring and control of				
			managed resources. These				
			APIs shall provide				
			mechanisms for:				
			a. Capturing, by an				
			application, of				
			management data				
			b. Exchanging				
			management data between				
			a managed application and				
			its management agent				
			c. Exchanging				
			management data between				
			a management agent and				
			the LSM				
			d. Performing analyses and				
			generating reports using				
GMC 1000//D		6 1	management data	D C 11			
SMC-1000#B	5150	functional	TT CMC 1 11 '1	B: full			
	5150		The SMC shall provide	compliance			
			application programming				
			interfaces (APIs) for the				
			monitoring and control of				
			managed resources. These				
			APIs shall provide				
			mechanisms for:				
			a. Capturing, by an				
			application, of				
			management data				
			b. Exchanging				
			management data between				
			a managed application and				
			its management agent				
			c. Exchanging				
			management data between				
			a management agent and				
			the LSM				
			d. Performing analyses and				
			generating reports using	1			
			generating reports using				

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				CCK 90-0	<i>7101</i> 1			age 10	01 70	
ESN-0910#A	6345	functional	The ESN fault management shall provide the capability to perform the following functions, at a minimum, both locally and at the SMC: a. set, view, and change alert threshold values b. enable and disable alert notifications (alarms) within a system c. enable and disable event reports within a system d. manage error and event logging files							
ESN-0910#A	6345	functional	The ESN fault management shall provide the capability to perform the following functions, at a minimum, both locally and at the SMC: a. set, view, and change alert threshold values b. enable and disable alert notifications (alarms) within a system c. enable and disable event reports within a system d. manage error and event logging files		C-MSS- 18220	225	functio	A	The MSS Management Data Access Service shall provide the capability for an application via APIs to alter tables and fields in the management database.	

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			,	CCR 70-0		age 11	
ESN-0910#B		functional					
	6346		The ESN fault				
			management shall provide				
			the capability to perform				
			the following functions, at				
			a minimum, both locally				
			and at the SMC:				
			a. set, view, and change				
			alert threshold values				
			b. enable and disable alert				
			notifications (alarms)				
			within a system				
			c. enable and disable event				
			reports within a system				
			d. manage error and event				
			logging files				
EOSD0500#A		functional		This "high			
	5598		ECS shall perform the	level"			
	1		following major functions:	requirement			
			a. EOS Mission Planning	covers almost			
			and Scheduling	all capabilities			
			b. EOS Mission Operations	provided by			
			c. Command and Control	ECS. Only			
			d. Communications and	selected			
			Networking	software and			
			e. Data Input	hardware			
			f. Data Processing	requirements			
			g. Data Storage	are mapped to			
			h. Data Distribution	this			
			i. Information	requirement.			
			Management	Additional			
			j. End-to-End Fault	software			
			Management	requirements			
			k. System Management	are mapped to			
				"lower level"			
				RBRs which			
				are more			
				specific.			

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E00E1510#:	T	T		1 110 1 1	0.1400	220		uge 12	
EOSD1710#A		interface		A: NOAA	C-MSS-	229	functio	A	The MSS Management Data
	6456		ECS elements shall	ADC 1-way	18280		nal		Access Service shall have the
			exchange with	interoperability					capability to schedule the
			ADCs/ODCs, such as	ECS to NOAA					transfer of management data at
			NOAA and other data						the sites to the SMC.
			processing and archiving						
			facilities, information						
			including the following:						
			a. Directories						
			b. Product Orders						
			c. Order Status						
			d. Science Data						
			e. Management Data						
SMC-3410#B		functional		B: Full					
	4952		The SMC shall perform	capability					
			short and long-term trend						
			analysis of system, site,						
			and element performance						
			to include, at a minimum:						
			a. Operational status						
			b. Performance of a						
			particular resource						
			c. Maintenance activities						
			(e.g., number of repairs per						
			item)						
EOSD3492#A		RMA	item)						
EOSD3472#A	5096	INVIA	RMA data shall be						
	2090								
			maintained in a repository						
			accessible for logistics						
			analysis						
			and other purposes.						
ESN-0070#A		functional	The ESN shall support the						
	6322		intrasite elements data						
			flow requirements						
	ĺ		identified in this						
			specification.						

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				CCR 70-0	71011		age 13	01) 0	
ESN-0910#A	6345	functional	The ESN fault management shall provide the capability to perform the following functions, at a minimum, both locally and at the SMC: a. set, view, and change alert threshold values b. enable and disable alert notifications (alarms) within a system c. enable and disable event reports within a system d. manage error and event logging files						
ESN-0830#A	6339	functional	The ESN shall have the capability to detect and report communications related errors and events both locally and at the SMC.						
EOSD1710#B	3873	interface	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	B: 2-way interoperability					
EOSD3492#B	3900	RMA	RMA data shall be maintained in a repository accessible for logistics analysis and other purposes.						
ESN-0070#B	6324	functional	The ESN shall support the intrasite elements data flow requirements identified in this specification.						

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				CCR 70 0	<i>,,</i> 011		ugc 14	01 / 0	
SDPS0010#A		functional		A: No					
	4127		The SDPS shall provide	accounting					
			CSMS with operational,						
			data processing, and data						
			quality.						
ESN-0910#B		functional							
	6346		The ESN fault						
			management shall provide						
			the capability to perform						
			the following functions, at						
			a minimum, both locally						
			and at the SMC:						
			a. set, view, and change						
			alert threshold values						
			b. enable and disable alert						
			notifications (alarms)						
			within a system						
			c. enable and disable event						
			reports within a system						
			d. manage error and event						
			logging files						
ESN-0830#B		functional							
	6342		The ESN shall have the						
			capability to detect and						
			report communications						
			related errors and events						
			both locally and at the						
			SMC.						

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				CCR 70-0	<i>71011</i>		age 13	01 70	
EOSD0500#A		functional		This "high					
	5598		ECS shall perform the	level"					
			following major functions:	requirement					
			a. EOS Mission Planning	covers almost					
			and Scheduling	all capabilities					
			b. EOS Mission Operations	provided by					
			c. Command and Control	ECS. Only					
			d. Communications and	selected					
			Networking	software and					
			e. Data Input	hardware					
			f. Data Processing	requirements					
			g. Data Storage	are mapped to					
			h. Data Distribution	this					
			i. Information	requirement.					
			Management	Additional					
			j. End-to-End Fault	software					
			Management	requirements					
			k. System Management	are mapped to					
				"lower level"					
				RBRs which					
				are more					
				specific.					
SMC-3410#A		functional		A: Performed					
	4312		The SMC shall perform	by M&O staff					
			short and long-term trend	using various					
			analysis of system, site,	performance					
			and element performance	management					
			to include, at a minimum:	tools					
			a. Operational status						
			b. Performance of a						
			particular resource						
			c. Maintenance activities						
			(e.g., number of repairs per						
			item)						1

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		T	1		, , , , , , , , , , , , , , , , , , , ,				T
SMC-1000#A		functional		A:	C-MSS-	863	functio	A	The MSS Management Data
	4214		The SMC shall provide	Partial/automat	18330		nal		Access Service shall provide the
			application programming	ed - except for					capability for an application to
			interfaces (APIs) for the	item c.					append records to a log file.
			monitoring and control of	item c.					append records to a log me.
			managed resources. These						
			APIs shall provide						
			mechanisms for:						
			a. Capturing, by an						
			application, of						
			management data						
			b. Exchanging						
			management data between						
			a managed application and						
			its management agent						
			c. Exchanging						
			management data between						
			a management agent and						
			the LSM						
			d. Performing analyses and						
			generating reports using						
			management data						
SMC-1000#B		functional		B: full					
	5150		The SMC shall provide	compliance					
			application programming	_					
			interfaces (APIs) for the						
			monitoring and control of						
			managed resources. These						
			APIs shall provide						
			mechanisms for:						
			a. Capturing, by an						
			application, of						
			management data						
			b. Exchanging						
			management data between						
			a managed application and						
			its management agent						
			c. Exchanging						
			management data between						
			a management agent and						
			the LSM						
			d. Performing analyses and						
			generating reports using						
			management data						

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SDPS0010#B		function -1			C-MSS-	222		Λ	The MCC Management Data	
2DL20010#B	5051	functional	The CDDC of the Co			233		A	The MSS Management Data	
	5051		The SDPS shall provide		18340		nal		Access Service shall provide the	
			CSMS with operational,						capability for an application	
			data processing, data						operator_to selectively read a	
			quality and accounting						record from a log file	
			status.						_	
ESN-1000#A		functional		A: Manual						
	5216		The ESN network							
			management function shall							
			have the capability to build							
			histories for different types							
			of errors and events, and							
			the capability to analyze							
			errors and recommend							
			corrective action wherever							
777 1070 11			practical.							
ESN-1070#A		functional								
	5226		The ESN shall provide the							
			capability to perform the							
			following functions, at a							
			minimum:							
			a. generate/collect network							
			statistics							
			b. control							
			collection/generation of							
			network statistics							
			c. store system statistics							
			and statistical histories							
			d. display the system							
			statistics							
			e. track end-to-end							
			transaction performance							
ECNL 0070#A		£1								
ESN-0070#A	6000	functional	The ESN shall support the							
	6322		intrasite elements data							
			flow requirements							
			identified in this							
			specification.							

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EOSD0500#A		£		Tile in tile in le		Ŭ	
EOSD0300#A		functional		This "high			
	5598		ECS shall perform the	level"			
			following major functions:	requirement			
			a. EOS Mission Planning	covers almost			
			and Scheduling	all capabilities			
			b. EOS Mission Operations	provided by			
			c. Command and Control	ECS. Only			
			d. Communications and	selected			
				software and			
			Networking				
			e. Data Input	hardware			
			f. Data Processing	requirements			
			g. Data Storage	are mapped to			
			h. Data Distribution	this			
			i. Information	requirement.			
			Management	Additional			
			j. End-to-End Fault	software			
			Management	requirements			
			k. System Management	are mapped to			
			K. System Management	"lower level"			
				RBRs which			
				are more			
				specific.			
ESN-0070#B		functional	The ESN shall support the				
	6324		intrasite elements data				
			flow requirements				
			identified in this				
			specification.				
ESN-1070#B		functional					
	3999		The ESN shall provide the				
	3777		capability to perform the				
			following functions, at a				
			minimum:				
			a. generate/collect network				
			statistics				
			b. control				
			collection/generation of				
			network statistics				
			c. store system statistics				
			and statistical histories				
			d. display the system				
			statistics				
			e. track end-to-end				
			transaction performance				
			transaction performance				

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								4.84 17	01 / 0	
SDPS0010#A	4127	functional	The SDPS shall provide CSMS with operational, data processing, and data quality.	A: No accounting						
SMC-1000#B	5150	functional	The SMC shall provide application programming interfaces (APIs) for the monitoring and control of managed resources. These APIs shall provide mechanisms for: a. Capturing, by an application, of management data b. Exchanging management data between a managed application and its management agent c. Exchanging management data between a management significant delay.	B: full compliance	C-MSS- 36110	440	functio nal	A	The MSS Management Agent Service shall provide an ECS domain manager master agent to coordinate and communicate with multiple ECS management subagents.	
AM1-0220#A	34	interface	The ECS shall have the capability to provide and the MISR, MOPITT, MODIS, and CERES PIs/TLs shall have the capability to receive IST toolkit software, IST toolkit software upgrades, and IST toolkit documentation.		C-MSS- 40460	400	functional operational	A	The MSS configuration management application service at the SMC shall assemble unlicensed toolkit software files for posting to the ECS bulletin board. Files consist of: asource code; blinkable object code for selected workstation configurations; cmakefiles that automate installation; dinstallation instructions.	Assembly of software files performed manually by M&O operators.

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AM1-0220#B	35	interface					
			The ECS shall have the				
			capability to provide and				
			the MISR, MOPITT,				
			MODIS, and CERES				
			PIs/TLs shall have the				
			capability to receive IST				
			toolkit software, IST				
			toolkit software upgrades,				
			and IST toolkit				
			documentation.				
SMC-2515#A		functional					
	4275		The LSM shall provide				
			configuration management				
			for at least the operational				
			hardware, system software,				
			and scientific software				
			within its element and for				
			the migration of				
			enhancements into the				
CNAC 2525 UD		C .: 1	operational system.	D E 11			
SMC-2535#B		functional		B: Full			
	4777		Upon approval of an	capability			
			enhancement, the LSM				
			shall facilitate the				
			implementation of the				
			approved changes within				
			an elements hardware and				
			software.				
SMC-2515#B		functional					
	4753		The LSM shall provide				
			configuration management				
			for at least the operational				
			hardware, system software,				
			and scientific software				
			within its element and for				
			the migration of				
			enhancements into the				
			operational system.				
SMC-2535#A		functional	operational system.	A: Partial			
51VIC-2333#FA	4270	Tunchonal	Upon approved of an				
	4279		Upon approval of an	compliance -			
			enhancement, the LSM shall facilitate the	Performed by M&O staff			
			implementation of the	using vaious			
			approved changes within	CM and other			
			an elements hardware and	tools			
			software.				

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SMC-8860#A	4376	functional	The SMC shall have the capability to generate detailed and summary fault management reports describing the fault management of ground resources, including, at a minimum: a. Fault type and description b. Time of occurrence of fault c. Effect on system d. Status of fault resolution e. Fault statistics	A: Performed by M&O staff using office automation tools.	C-MSS- 57550	5129	functio nal	A	The Trouble Ticketing Service shall provide the ability to maintain different—be capable of indicating whether a trouble ticket statuses including: is Open, Work-In-Progress, Closed, Archived. The Trouble Ticketing Service shall be capable of indicating whether a trouble ticket is open, in progress, closed, or archived.	
EOSD1710#A	6456	interface	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	A: NOAA ADC 1-way interoperability ECS to NOAA	C-MSS- 60160	215	functio nal operati onal	A	The MSS EMC Fault Management Application Service shall have the capability to receive notifications of detected faults and degradation of performance from: aSite fault management applications bOther external systems as defined in Section 5.1.	Satisfied via email.
ESN-0800#A	6335	functional	The ESN shall be capable of displaying the local network configuration status related to each system locally, and for all systems at the SMC.	All applicable sites						
NSI-0030#A	6231	interface	NSI shall have the capability of sending and ECS shall have the capability of receiving notification of faults in NSI's network that may affect the quality of NSI services between ECS and its users.							

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NSI-0030#B	6239	interface	NSI shall have the capability of sending and ECS shall have the capability of receiving notification of faults in NSI's network that may affect the quality of NSI services between ECS and its users.							
NSI-0040#B	6240	interface	NSI shall make available to ECS information regarding fault status and estimated time to repair or resolve NSI faults that may affect the quality of NSI services between ECS and its users.							
NSI-0040#A	6232	interface	NSI shall make available to ECS information regarding fault status and estimated time to repair or resolve NSI faults that may affect the quality of NSI services between ECS and its users.							
ESN-0760#A	5360	functional	The ESN report generation function shall provide, on an interactive and scheduled basis, accounting, network configuration, fault and performance management information.		C-MSS- 60210	226	functio nal operati onal	A	The MSS Fault Management Application Service shall maintain a list of external service providers, M&O operators, and applications to be notified in the event that a specified fault is detected.	Satisfied via OA tools.
EOSD1710#B	3873	interface	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	B: 2-way interoperability						

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ESN-0760#B functional	
3981 The ESN report generation	
function shall provide, on	
an interactive and	
scheduled basis,	
accounting, network	
configuration, fault and	
performance management	
information.	
EOSD1710#A interface A: NOAA	
6456 ECS elements shall ADC 1-way	
exchange with interoperability	
ADCs/ODCs, such as ECS to NOAA	
NOAA and other data	
processing and archiving	
facilities, information	
including the following:	
a. Directories	
b. Product Orders	
c. Order Status	
d. Science Data	
e. Management Data	
	A The MSS Fault Management
	Application Service shall
capable of verifying the	provide the capability to
fidelity of the ECS element	identify routes verify
interface to:	<u>connectivity</u> between selected
a. Other ECS elements at	pairs of hosts on the ESN.
any time during the	
lifetime of the ECS	
b. Entities external to ECS	
at any time during the	
lifetime of the ECS	
ESN-0810#A functional	
5200 ESN shall provide the	
following fault	
management functions at a	
minimum:	
a. detect the occurrence of	
faults,	
b. control the collection of	
fault information, and	
c. diagnose the probable	I I
cause of a detected fault	I

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							uge 2 i		
ESN-0760#A		functional							
	5360		The ESN report generation						
			function shall provide, on						
			an interactive and						
			scheduled basis,						
			accounting, network						
			configuration, fault and						
			performance management						
			information.						
G3 5G 404 5#4			information.	G) (GG	2.50			T 100 T 1 10	70.
SMC-4315#A		functional		C-MSS-	258	functio	A	The MSS Fault Management	<u>Diagnostics</u>
	4324		The LSM shall, at a	60350		nal		Application Service shall have	<u>initiated</u>
			minimum, isolate, locate,					the capability to periodically	manually by
			and identify faults, identify			<u>operati</u>		execute diagnostic tests in order	<u>M&O</u>
			subsystem, equipment, and			<u>onal</u>		to isolate, characterize and	operators.
			software faults, and					identify a fault	<u>- p</u>
			identify the nature of the						
			faults within its element.						
SMC-4325#A		functional							
	4326		The LSM shall request						
			fault diagnosis testing be						
			performed, including, at a						
			minimum:						
			a. Software and hardware						
			tolerance testing						
			b. Resource-to-resource						
			connectivity testing within						
			its element						
EOSD0780#B		functional	TES CICINOTE						
LOSDO760#D	3845	Tuncuonai	Each ECS element shall be						
	3043		capable of being monitored						
			during testing.						
ECM 0620#B	-	£	during testing.						
ESN-0620#B	2075	functional	The ECN shall in shade						
	3975		The ESN shall include a						
			network management						
			function to monitor and						
			control the ESN.						

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				I				
EOSD0500#A		functional		This "high				
	5598		ECS shall perform the	level"				
			following major functions:	requirement				
			a. EOS Mission Planning	covers almost				
			and Scheduling	all capabilities				
			b. EOS Mission Operations	provided by				
			c. Command and Control	ECS. Only				
			d. Communications and	selected				
			Networking	software and				
			e. Data Input	hardware				
			f. Data Processing	requirements				
			g. Data Storage h. Data Distribution	are mapped to				
				this				
			i. Information	requirement.				
			Management	Additional				
			j. End-to-End Fault	software				
			Management	requirements				
			k. System Management	are mapped to				
				"lower level"				
				RBRs which				
				are more				
				specific.				
EOSD0780#A		functional						
	4807		Each ECS element shall be					
			capable of being monitored					
			during testing.					
ESN-0620#A		functional	8 8					
251, 0020,111	5335	101101101101	The ESN shall include a					
	0000		network management					
			function to monitor and					
			control the ESN.					
SMC-4325#B		functional	control the Lory.		<u> </u>			
3NIC-4323#B	4966	Tunctional	The I SM shall request					
	4900		The LSM shall request					
			fault diagnosis testing be					
			performed, including, at a					
			minimum:					
			a. Software and hardware					
			tolerance testing					
			b. Resource-to-resource					
			connectivity testing within					
			its element					

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SMC-4315#B	4964	functional	The LSM shall, at a minimum, isolate, locate, and identify faults, identify subsystem, equipment, and software faults, and identify the nature of the faults within its element.							
SMC-4300#B	4959	functional	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum: a. Fault identification b. Fault priorities c. Recovery or corrective actions		C-MSS- 60400	9790	functio nal operati onal	A	The MSS Fault Management Application Service shall support, maintain, and update system fault management policies and procedures, to include: _aFault Identification _bFault priorities _cRecovery or corrective actions	Satisfied via OA tools.
SMC-4305#B	4960	functional	The LSM shall maintain fault management policies and procedures for its element.							
SMC-4300#B	4959	functional	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum: a. Fault identification b. Fault priorities c. Recovery or corrective actions		C-MSS- 60410	265	functio nal operati onal	A	The MSS Site Fault Management Application Service shall have the capability to receive Fault Management Policies and Procedures from the EMC	Satisfied via e- mail.
SMC-4305#B	4960	functional	The LSM shall maintain fault management policies and procedures for its element.							

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SMC-4300#A	4319	functional	The SMC shall support, maintain, and update system fault management policies and procedures including, at a minimum: a. Fault identification b. Fault priorities c. Recovery or corrective actions	A: Performed by M&O staff using office automation tools						
SMC-4305#A	4321	functional	The LSM shall maintain fault management policies and procedures for its element.	A: Full compliance - Performed by M&O staff using office automation tools						
ESN-0620#A	5335	functional	The ESN shall include a network management function to monitor and control the ESN.		C-MSS- 60420	5331	functional operational	A	The MSS Fault Management Application Service shall interface with the MSS Configuration Management Application Service and schedule a change in the configuration of the site when such a change in the configuration of the site is deemed necessary to recover from a fault	Site configuration changes are performed by M&O operators.
ESN-0650#A	5345	security	The ESN shall perform the following network management functions for each protocol stack implemented in any ECS element, and each communications facility: a. Network Configuration Management b. Network Fault Management c. Network Performance Management d. Network Security Management						_	

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				CCR 70 0	<i>,</i> , 011		uge 20	
SMC-4330#A	4328	functional	SMC shall have the	A: Performed by M&O staff				
			capability to generate fault recovery commands,	using e-mail and/or phone				
			directives, and instructions to sites and elements					
			except for faults directly					
SMC-4335#A		functional	related to flight operations.	A: Partial				
SWC-4555#A	4329	Tunctional	The LSM shall generate	compliance -				
			fault recovery commands,	manual or				
			directives, and instructions within its element.	semi-automated				
SMC-4330#B		functional		B: Full				
	4967		SMC shall have the capability to generate fault	capability using system fault				
			recovery commands,	management				
			directives, and instructions to sites and elements	tools				
			except for faults directly					
			related to flight operations.					
SMC-4335#B	4969	functional	The LSM shall generate	B: Fully automated				
	4707		fault recovery commands,	automated				
			directives, and instructions within its element.					
ESN-0620#B		functional	within its element.					
	3975		The ESN shall include a					
			network management function to monitor and					
			control the ESN.					
ESN-0650#B	3977	security	The ECNI shall marke our the					
	3911		The ESN shall perform the following network					
			management functions for					
			each protocol stack implemented in any ECS					
			element, and each					
			communications facility:					
			a. Network Configuration Management					
			b. Network Fault					
			Management c. Network Performance					
			Management					
			d. Network Security					
			Management					

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	_			CCR 70 0			7	uge 27		
SMC-4330#A	4328	functional	SMC shall have the capability to generate fault recovery commands, directives, and instructions to sites and elements except for faults directly related to flight operations.	A: Performed by M&O staff using e-mail and/or phone	C-MSS- 60510	269	functional operational	A	The MSS EMC Fault Management Application Service at the SMC shall coordinate, as necessary via directives and instructions, the recovery from faults reported from a site.	Satisfied via e-mail.
SMC-4330#B	4967	functional	SMC shall have the capability to generate fault recovery commands, directives, and instructions to sites and elements except for faults directly related to flight operations.	B: Full capability using system fault management tools						
SMC-4335#B	4969	functional	The LSM shall generate fault recovery commands, directives, and instructions within its element.	B: Fully automated	C-MSS- 60540	272	functional operational	A	The MSS Fault Management Application Service shall utilize office automation support tools for the generation of directives and instructions for recovery from faults within its site.	Satisfied via OA tools.
SMC-4335#A	4329	functional	The LSM shall generate fault recovery commands, directives, and instructions within its element.	A: Partial compliance - manual or semi-automated						
EOSD1710#A	6456	interface	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	A: NOAA ADC 1-way interoperability ECS to NOAA	C-MSS- 66140	9106	functional operational	A	The MSS EMC Performance Management Application Service shall have the capability to request performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version od 304-CD-003.	Satisfied via e- mail.

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NSI-0060#A	6234	interface	NSI shall provide ECS SMC with load analysis reports, reflecting or summarizing NSI performance measurements over various time intervals.		C-MSS- 66150	9125	functional operational	A	The MSS EMC Performance Management Application Service shall be capable of receiving performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version of 304-CD-003.	Satisfied via e- mail.
NSI-0060#B	6242	interface	NSI shall provide ECS SMC with load analysis reports, reflecting or summarizing NSI performance measurements over various time intervals.							
EOSD1710#A	6456	interface	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	A: NOAA ADC 1-way interoperability ECS to NOAA						
SMC-3355#B	4931	functional	The LSM shall implement the performance criteria from SMC (including parametric limits and operational threshold levels) for evaluating element resource performance.	B: Full capability (through use of performance management tools)	C-MSS- 66210	4898	functional operational	A	The MSS EMC performance management application service shall be capable of sending a list of suggested initial thresholds for each performance metric to the MSS site performance management application service.	Satisfied via e-mail.

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								450 51		
SMC-3355#A	4303	functional	The LSM shall implement the performance criteria from SMC (including parametric limits and operational threshold levels) for evaluating element resource performance.	A: Performed by M&O staff using performance management tools						
SMC-3355#A	4303	functional	The LSM shall implement the performance criteria from SMC (including parametric limits and operational threshold levels) for evaluating element resource performance.	A: Performed by M&O staff using performance management tools	C-MSS- 66220	4899	functio nal operati onal	A	The MSS site performance management application service shall be capable of receiving a list of suggested initial thresholds for each performance metric from the MSS EMC performance management application service.	Satisfied via e-mail.
SMC-3355#B	4931	functional	The LSM shall implement the performance criteria from SMC (including parametric limits and operational threshold levels) for evaluating element resource performance.	B: Full capability (through use of performance management tools)						
SMC-3385#A	4307	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.		C-MSS- 66320	5300	functio nal	A	The MSS-Performance Management Application Service shall be capable of receiving the following performance data from the Data Server: a. total order volume b. average elapsed time for of Data Server events	
SMC-3385#B	4943	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.							

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SMC-3385#B	4943	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.		C-MSS- 66330	5301	functio nal	A	The MSS Performance Management Application Service shall be capable of receiving the following performance data from Data Processing Planning: a. number of products generated Notification received b. product run times Notification received but not processed c. product CPU times DPRs released	Data will be received via MDA and logged into management database.
SMC-3385#A	4307	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.							
SMC-3385#A	4307	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.		C-MSS- 66340	5302	functio nal	A	The MSS Performance Management Application Service shall be capable of receiving the following performance data from Ingest: a. ingest volumes b. processing times c. no. of completed requests d. no. of unsuccessful requests	
SMC-3385#B	4943	functional	The LSM shall evaluate system performance against the ESDIS project established performance criteria.							

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			T	CCR 70-0				age 33	
SMC-8840#A		functional		A: Full	C-MSS-	311	functio	A	The MSS performance
	4374		The SMC shall have the	compliance	68030		nal		management application service
			capability to generate						shall be capable of receiving
			detailed and summary						system resource utilization
			reports indicating the						information requests from the
			performance of ground						SDPS Planning & Data
			resources, including, at a						Processing Data Processing
			minimum:						subsystem operators via the
			a. Resource availability						Management Agent Service.
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						
SMC-8840#B		functional							
	5048		The SMC shall have the						
			capability to generate						
			detailed and summary						
			reports indicating the						
			performance of ground						
			resources, including, at a						
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						

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SMC-8840#B		functional			C-MSS-	312	functio	A	The MSS performance
	5048		The SMC shall have the		68040		nal		management application service
			capability to generate						shall be capable of providing
			detailed and summary						the following current system
			reports indicating the						resource utilization information
			performance of ground						to the SDPS Planning & Data
			resources, including, at a						Processing subsystem operators
			minimum:						via Management Agent Service:
			a. Resource availability						a. CPU utilization
			b. Reason for down time						b. memory utilization
			c. Resource utilization						c. disk i/o's (per second)
			d. Ability of resource to						, , , , , , , , , , , , , , , , , , ,
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						
SMC-8840#A		functional		A: Full					
	4374		The SMC shall have the	compliance					
			capability to generate						
			detailed and summary						
			reports indicating the						
			performance of ground						
			resources, including, at a						
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						

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				CCR 70-0				age 33	
SMC-8840#A		functional		A: Full	C-MSS-	313	functio	A	The MSS performance
	4374		The SMC shall have the	compliance	68050		nal		management application service
			capability to generate						shall be capable of receiving
			detailed and summary						resource utilization information
			reports indicating the						requests from the SDPS Data
			performance of ground						Server subsystems operators via
			resources, including, at a						Management Agent Service.
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						
SMC-8840#B		functional							
	5048		The SMC shall have the						
			capability to generate						
			detailed and summary						
			reports indicating the						
			performance of ground						
			resources, including, at a						
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						

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SMC-8840#B		functional			C-MSS-	314	functio	A	The MSS performance
	5048		The SMC shall have the		68060		nal		management application service
			capability to generate						shall be capable of providing
			detailed and summary						the following current resource
			reports indicating the						utilization information to the
			performance of ground						SDPS Data Server subsystems
			resources, including, at a						operators_via Management
			minimum:						Agent Service:
			a. Resource availability						a. CPU utilization
			b. Reason for down time						b. memory utilization
			c. Resource utilization						c. disk I/O's (per second)
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						
SMC-8840#A		functional		A: Full					
	4374		The SMC shall have the	compliance					
			capability to generate						
			detailed and summary						
			reports indicating the						
			performance of ground						
			resources, including, at a						
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
	I		planning results	I	1				

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				CCR 70-0				age 37	
SMC-8840#A		functional		A: Full	C-MSS-	315	functio	A	The MSS performance
	4374		The SMC shall have the	compliance	68070		nal		management application service
			capability to generate						shall be capable of receiving
			detailed and summary						resource utilization information
			reports indicating the						requests from the SDPS Client
			performance of ground						subsystem operators via
			resources, including, at a						Management Agent Service.
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						
SMC-8840#B		functional							
	5048		The SMC shall have the						
			capability to generate						
			detailed and summary						
			reports indicating the						
			performance of ground						
			resources, including, at a						
			minimum:						
			a. Resource availability						
			b. Reason for down time						
			c. Resource utilization						
			d. Ability of resource to						
			meet performance criteria						
			e. Short and long-term						
			trend analysis and capacity						
			planning results						

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				CCR 70-0	7,011			age 50	01 > 0
SMC-8840#B	5048	functional	The SMC shall have the capability to generate detailed and summary reports indicating the performance of ground resources, including, at a minimum: a. Resource availability b. Reason for down time c. Resource utilization d. Ability of resource to		C-MSS- 68080	316	functio nal	A	The MSS performance management application service shall be capable of providing the following current resource utilization information to the SDPS Client subsystem operators via Management Agent Service. a. CPU utilization b. memory utilization c. disk I/O's (per second)
			meet performance criteria e. Short and long-term trend analysis and capacity planning results						
SMC-8840#A	4374	functional	The SMC shall have the capability to generate detailed and summary reports indicating the performance of ground resources, including, at a minimum: a. Resource availability b. Reason for down time c. Resource utilization d. Ability of resource to meet performance criteria e. Short and long-term trend analysis and capacity planning results	A: Full compliance					

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SMC-3340#A		functional		A: Performed	C-MSS-	317	functio	A	The MSS performance	Satisfied via
	4299		The SMC shall perform	by M&O staff	69000		nal		management application service	OA tools.
			quality assurance for the	using available					shall maintain operational	
			overall ECS performance	performance			<u>operati</u>		benchmark test procedures.	
			as well as programmatic	management			<u>onal</u>		_	
			areas that include, at a	tools.						
			minimum:							
			a. System quality testing,							
			benchmarks, and audits for							
			system enhancement							
			implementations							
			b. System quality checking							
			and audits of products							
			processed and delivered							
			c. Quality testing and							
			audits of site and element							
			resource performance.							
SMC-3340#B		functional		B: Full						
	4923		The SMC shall perform	capability						
			quality assurance for the							
			overall ECS performance							
			as well as programmatic							
			areas that include, at a							
			minimum:							
			a. System quality testing,							
			benchmarks, and audits for							
			system enhancement							
			implementations							
			b. System quality checking							
			and audits of products							
			processed and delivered							
			c. Quality testing and							
			audits of site and element							
		1	resource performance.				I			

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SMC-3345#B	4925	functional	The LSM shall perform quality assurance for its site/elements performance as well as programmatic areas that includes, at a minimum: a. Quality testing, benchmarks and audits for element enhancement implementations b. Quality checking and audits of products processed and delivered c. Quality testing and audits of element resource performance,	B: Full capability (through use of various performance management tools)	C-MSS- 69010	318	functional operational	A	The MSS performance management application service shall receive and maintain operational benchmark test results.	Satisfied via OA tools.
SMC-3345#A	6492	functional	The LSM shall perform quality assurance for its site/elements performance as well as programmatic areas that includes, at a minimum: a. Quality testing, benchmarks and audits for element enhancement implementations b. Quality checking and audits of products processed and delivered c. Quality testing and audits of element resource performance,	A: Performed by M&O staff using various performance management tools						

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SMC-3340#A ESN-0815#B	4299	functional	The SMC shall perform quality assurance for the overall ECS performance as well as programmatic areas that include, at a minimum: a. System quality testing, benchmarks, and audits for system enhancement implementations b. System quality checking and audits of products processed and delivered c. Quality testing and audits of site and element resource performance.	A: Performed by M&O staff using available performance management tools.	C-MSS- 69020	319	functional operational		The MSS performance management application service shall be capable of performing operational benchmark tests.	Benchmark tests are initiated manually by M&O operators.
ESIV 0013#B	3988	Tunetional	Network simulation and traffic modeling capability shall be provided to troubleshoot network problems and to use in network planning.							
SMC-3340#B	4923	functional	The SMC shall perform quality assurance for the overall ECS performance as well as programmatic areas that include, at a minimum: a. System quality testing, benchmarks, and audits for system enhancement implementations b. System quality checking and audits of products processed and delivered c. Quality testing and audits of site and element resource performance.	B: Full capability						

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		•		CCR 70 C	7,011			ugc +2	01 7 0	
ESN-0815#A	5202	functional	Network simulation and traffic modeling capability shall be provided to							
			troubleshoot network problems and to use in network planning.							
SMC-3340#A	4299	functional	The SMC shall perform quality assurance for the overall ECS performance as well as programmatic areas that include, at a minimum: a. System quality testing, benchmarks, and audits for system enhancement implementations b. System quality checking and audits of products processed and delivered c. Quality testing and audits of site and element resource performance.	A: Performed by M&O staff using available performance management tools.	C-MSS- 69030	322	functio nal operati onal	A	The MSS performance management application service shall be capable of providing results of benchmark tests and results of predefined tests to the M&O staff for validation.	Satisfied via OA tools.
EOSD1703#A	5599	interface	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: a). System Management b). Science Algorithm Integration c). Product Generation d). Data Archive/Distribution e). User Support Services f). System Maintenance	A: GSFC, MSFC, LaRC DAACs. Users Services is provided through the same interfaces available to the users community which included the VO Client for Release A. For the EDC DAACs, only item b. of req. text applicable.						

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EOSD1703#B		interface		B: all DAACs			
	5600		ECS shall provide				
			maintenance and				
			operations interfaces to the				
			DAACs to				
			support the functions of:				
			a). System Management				
			b). Science Algorithm				
			Integration				
			c). Product Generation				
			d). Data				
			Archive/Distribution				
			e). User Support Services				
FG) 1 004 5 11 7		0 1	f). System Maintenance				
ESN-0815#B	2000	functional	N. 1 . 1 . 1				
	3988		Network simulation and				
			traffic modeling capability				
			shall be provided to troubleshoot network				
			problems and to use in				
			network planning.				
SMC-3340#B		functional	network planning.	B: Full			
SNIC-3340#D	4923	Tunctionar	The SMC shall perform	capability			
	4923		quality assurance for the	capaomity			
			overall ECS performance				
			as well as programmatic				
			areas that include, at a				
			minimum:				
			a. System quality testing,				
			benchmarks, and audits for				
			system enhancement				
			implementations				
			b. System quality checking				
			and audits of products				
			processed and delivered				
			c. Quality testing and				
			audits of site and element				
			resource performance.				
ESN-0815#A		functional					
	5202		Network simulation and				
			traffic modeling capability				
			shall be provided to				
			troubleshoot network				
			problems and to use in				
			network planning.				

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			,	 			age		
EOSD2660#B	3893	security	ECS elements shall at all times maintain and comply with the security directives issued by the SMC.	C-MSS- 70320	332	functional operational	A	The MSS site Security Management Application Service shall have the capability to send the results of the tests to the EMC Security Management Application Service.	Satisfied via e- mail.
SMC-5335#A	4340	security	The LSM shall perform security testing that includes, at a minimum, password auditing and element internal access/privileges checking.						
SMC-5335#B	4977	security	The LSM shall perform security testing that includes, at a minimum, password auditing and element internal access/privileges checking.						
EOSD2660#A	5075	security	ECS elements shall at all times maintain and comply with the security directives issued by the SMC.						
SMC-5330#B	4975	security	The SMC shall provide support, manage, maintain, and request security testing that includes, at a minimum, password checking and control of site and element internal privileges.	C-MSS- 70330	333	functio nal operati onal	A	The MSS EMC Security Management Application Service shall have the capability to request, support, coordinate and maintain security testing for sites.	Satisfied via e- mail
EOSD2660#A	5075	security	ECS elements shall at all times maintain and comply with the security directives issued by the SMC.						

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SMC-5330#A		security								
	4338		The SMC shall provide							
			support, manage, maintain,							
			and request security testing							
			that includes, at a							
			minimum, password							
			checking and control of							
			site and element internal							
			privileges.							
EOSD2660#B		security	privilegesi							
LOSDZOOOND	3893	security	ECS elements shall at all							
	3073		times maintain and comply							
			with the security directives							
			issued by the SMC.							
EOSD2660#B		security	issued by the sine.		C-MSS-	334	functio	A	The MSS EMC Security	Satisfied via e-
EGSB2000#B	3893	security	ECS elements shall at all		70340	331	nal		Management Application	mail
	0070		times maintain and comply		702.0		1141		Service shall have the capability	man
			with the security directives				<u>operati</u>		to request security testing of the	
			issued by the SMC.				onal		sites on a scheduled and an	
							<u>Ontar</u>		interactive basis	
SMC-5330#A		security								
	4338		The SMC shall provide							
			support, manage, maintain,							
			and request security testing							
			that includes, at a							
			minimum, password							
			checking and control of							
			site and element internal							
			privileges.							
SMC-5330#B		security								
	4975	I	The SMC shall provide							
			support, manage, maintain,							
			and request security testing							
			that includes, at a							
			minimum, password							
			checking and control of							
			site and element internal							
			privileges.							
EOSD2660#A		security								
	5075]	ECS elements shall at all							
			times maintain and comply							
			with the security directives							
			issued by the SMC.	_						

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SMC-5330#B	4975	security	The SMC shall provide support, manage, maintain, and request security testing that includes, at a minimum, password checking and control of site and element internal privileges.		C-MSS- 70350	335	functio nal operati onal	A	The MSS EMC Security Management Application Service shall have the capability to receive the results of security tests performed at the sites.	Satisfied via e- mail (or kftp for sensitive data)
EOSD2660#A	5075	security	ECS elements shall at all times maintain and comply with the security directives issued by the SMC.							
SMC-5330#A	4338	security	The SMC shall provide support, manage, maintain, and request security testing that includes, at a minimum, password checking and control of site and element internal privileges.							
EOSD2660#B	3893	security	ECS elements shall at all times maintain and comply with the security directives issued by the SMC.							
EOSD2650#B	3892	security	ECS elements shall report detected security violations to the SMC.		C-MSS- 70400	336	functio nal operati onal	A	The MSS EMC Security Management Application Service shall have the capability to receive notifications of security events from the site Security Management Application Services	Satisfied via e- mail
EOSD2710#B	3894	security	ECS elements shall report all detected computer viruses and actions taken to the SMC.							
SMC-5340#A	4342	security	The SMC shall perform security risk analyses and compromise detection.	A: Performed by M&O staff using detection tools						

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SMC-5340#B	4978	security	The SMC shall perform security risk analyses and compromise detection.	B: Fully automated.						
EOSD2650#A	6310	security	ECS elements shall report detected security violations to the SMC.							
EOSD2710#A	5077	security	ECS elements shall report all detected computer viruses and actions taken to the SMC.							
SMC-5340#A	4342	security	The SMC shall perform security risk analyses and compromise detection.	A: Performed by M&O staff using detection tools	C-MSS- 70420	338	functio nal	A	The MSS EMC Security Management Application Service shall have the capability to analyze security audit trails events for the purpose of detecting intrusions	
SMC-5345#B	4979	security	The LSM shall perform compromise (e.g., virus or worm penetration) risk analysis, and detection.		C-MSS- 70430	339	functio nal operati onal	A	The MSS site Security Management Application Service shall provide the capability to designate a user or a group of users to receive a notification upon the detection of an intrusion, virus or worm.	Satisfied via e- mail aliases set up and maintained by M&O operators
EOSD2710#A	5077	security	ECS elements shall report all detected computer viruses and actions taken to the SMC.							
EOSD2650#A	6310	security	ECS elements shall report detected security violations to the SMC.							
SMC-5345#A	6495	security	The LSM shall perform compromise (e.g., virus or worm penetration) risk analysis, and detection.							
EOSD2650#B	3892	security	ECS elements shall report detected security violations to the SMC.							

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EOSD2710#B	3894	security	ECS elements shall report all detected computer viruses and actions taken to the SMC.							
EOSD2710#B	3894	security	ECS elements shall report all detected computer viruses and actions taken to the SMC.		C-MSS- 70440	340	functio nal	A	The MSS site Security Management Application Service shall provide the capability to notify designated M&O staff(s) upon the detection of an intrusion, virus or worm.	
SMC-5345#B	4979	security	The LSM shall perform compromise (e.g., virus or worm penetration) risk analysis, and detection.		C-MSS- 70450	341	functio nal	A	The MSS site Security Management Application Service shall have the capability to detect the following types of intrusions: aLogin failures bUnauthorized access to ECS resources cBreak-ins_ dViruses and worms	Security management detects intrusions based on events logged to the Management Log.
SMC-5350#B	4981	security	The SMC shall have the capability to initiate recovery procedures in response to a detected security compromise.	B: Fully automated	C-MSS- 70500	343	functional operational	A	The MSS EMC Security Management Application Service shall have the capability to coordinate with the site Security Management Application Services, via directives and instructions, the recovery from security compromises	Satisfied via e- mail.

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EOSD2990#A				A , 1					01) 0	
EUSD2990#A	C417	security	The ECC -1	A: at each						
	6417		The ECS elements shall	DAAC as						
			support the recovery from	activated by the						
			a system failure due to a	release						
			loss	recovery of						
			in the integrity of the ECS	higher level						
			data or a catastrophic	products by						
			violation of the security	reprocessing of						
			system.	Level 0 if						
				needed.						
				A: at the SMC						
				and EOC to						
				support system						
				failures.						
EOSD2990#B		security		B: all DAACs						
	3895		The ECS elements shall							
			support the recovery from							
			a system failure due to a							
			loss							
			in the integrity of the ECS							
			data or a catastrophic							
			violation of the security							
		_	system.							
SMC-5350#A		security		A: Performed						
	4344		The SMC shall have the	by M&O staff						
			capability to initiate							
			recovery procedures in							
			response to a detected							
			security compromise.							
SMC-5355#A	40:-	security			C-MSS-	344	functio	A	The MSS site Security	<u>Isolation done</u>
	4345		The LSM shall isolate the		70510		nal		Management Application	manually by
			compromised area, detach						Service shall, upon the	<u>M&O</u>
			the compromised input				<u>operati</u>		detection of a compromise,	operators.
			I/O, and the compromised				<u>onal</u>		isolate the compromised input	
			areas output I/O until the						I/O, and the compromised area's	
			compromise has been						output I/O until the compromise	
			eliminated.						has been eliminated	

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EOSD2990#B		security		B: all DAACs			
	3895	1	The ECS elements shall				
	00,0		support the recovery from				
			a system failure due to a				
			loss				
			in the integrity of the ECS				
			data or a catastrophic				
			violation of the security				
			system.				
EOCD1702#D		:	system.	D. all DAACa			
EOSD1703#B		interface		B: all DAACs			
	5600		ECS shall provide				
			maintenance and				
			operations interfaces to the				
			DAACs to				
			support the functions of:				
			a). System Management				
			b). Science Algorithm				
			Integration				
			c). Product Generation				
			d). Data				
			Archive/Distribution				
			e). User Support Services				
			f). System Maintenance				
EOSD1703#A		interface		A: GSFC,			
	5599		ECS shall provide	MSFC, LaRC			
			maintenance and	DAACs. Users			
			operations interfaces to the	Services is			
			DAACs to	provided			
			support the functions of:	through the			
			a). System Management	same interfaces			
			b). Science Algorithm	available to the			
			Integration	users			
			c). Product Generation	community			
			d). Data	which included			
			Archive/Distribution	the VO Client			
			e). User Support Services	for Release A.			
			f). System Maintenance	For the EDC			
				DAACs, only			
				item b. of req.			
				text applicable.			

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EOSD2990#A	6417	security	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.	A: at each DAAC as activated by the release recovery of higher level products by reprocessing of Level 0 if needed. A: at the SMC and EOC to support system failures.						
SMC-5355#B	4983	security	The LSM shall isolate the compromised area, detach the compromised input I/O, and the compromised areas output I/O until the compromise has been eliminated.							
SMC-5365#B	4986	security	The LSM shall generate recovery actions in response to the detection of compromises.		C-MSS- 70530	346	functio nal operati onal	A	The MSS EMC Security Management Application Service shall coordinate, as necessary via directives and instructions, the recovery from security events reported from a site	Satisfied via e- mail.
EOSD2990#A	6417	security	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.	A: at each DAAC as activated by the release recovery of higher level products by reprocessing of Level 0 if needed. A: at the SMC and EOC to support system failures.						

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EOSD2990#B	3895	security	The ECS elements shall support the recovery from a system failure due to a loss in the integrity of the ECS data or a catastrophic violation of the security system.	B: all DAACs					
SMC-5365#A	4346	security	The LSM shall generate recovery actions in response to the detection of compromises.						
SMC-7300#A	4359	functional	The SMC shall establish, maintain, and update the authorized users inventory to include, at a minimum: a. Users identifications b. Addresses c. Allowed privileges	A: Full Capability	C-MSS- 75000	352	functio	A	The MSS accountability management service shall provide the capability to maintain a user profile database that stores the following information for each registered user: a. Name b. User ID c. Password information 1. password 2. password expiration date d. Assigned privileges e. Mailing address f. Telephone number g. Product shipping address h. E-mail address i. Organization (optional) j. Project affiliation(s) (optional) 1. project name 2. project principal investigator k. User group 1. Account information 1. creation date 2. expiration date m. Restrictions 1. time of day 2. location 3. type of service

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SMC-6310#A	4348	security	The SMC shall perform, as needed, security audit trails.	A: Fully automated	C-MSS- 76020	357	functio nal	A	The MSS accountability management service shall be capable of retrieving all activities associated with a particular user or data item via from the Management Data Access service Database	
SMC-6325#A	4352	security	The LSM shall perform, as needed, data and user audit trails within its element.							
SMC-6320#A	4351	security	The SMC shall perform, as needed, data and user audit trails.	A: Full compliance						
SMC-6315#A	4350	security	The LSM shall perform, as needed, security audit trails within its element.	A: Full compliance						
SMC-6310#B	4989	security	The SMC shall perform, as needed, security audit trails.							
SMC-6320#B	4992	security	The SMC shall perform, as needed, data and user audit trails.							
SMC-6325#B	5000	security	The LSM shall perform, as needed, data and user audit trails within its element.							
SMC-6315#B	4990	security	The LSM shall perform, as needed, security audit trails within its element.							

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EOSD2510#B	3887	security	ECS elements shall maintain an audit trail of: a. All accesses to the element security controlled data b. Users/processes/elements requesting access to element security controlled data c. Data access/manipulation operations performed on security controlled data d. Date and time of access to security controlled data e. Unsuccessful access attempt to the element security controlled data by unauthorized users/elements/processes		C-MSS- 76030	329	functio	A	The MSS Accountability Management Service shall be capable of browsing, via the Management Data Access service, logged events, for each ECS host, indicating incoming access attempts via: a. telnet b. FTP c. rlogin d. finger.
ESN-1430#B	4019	security	system viruses and worms g. Actions taken to contain or destroy a virus The ESN shall provide the following security event functions: a. Event detection b. Event reporting c. Event logging						
SMC-6310#A	4348	security	The SMC shall perform, as needed, security audit trails.	A: Fully automated					
SMC-6315#A	4350	security	The LSM shall perform, as needed, security audit trails within its element.	A: Full compliance					

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SMC-6315#B 4980 Security ECS clements shall maintain an audit trails of: a. All accesses to the element security controlled data b. Users/processes/elements requesting access to element security controlled data c. Data access/manipulation operations performed on security controlled data d. Date and time of access to security controlled data or Unsuccessful access attempt to the element security controlled data or Unsuccessful access attempt to the element security controlled data or Unsuccessful access attempt to the element security controlled data or Unsuccessful access attempt to the element security controlled data or Unsuccessful access attempt to the element security controlled data by unauthorized users/elements/processes f. Detected computer system viruses and worms g. Actions taken to contain or destroy a virus ESN-1430#A Security The ESN shall provide the following security event functions: a. Event detection b. Event reporting c. Event logging SMC-6315#B					0011700	<i>-</i>	 	uge 22	
ESN-1430#A SEC Science Shall maintain an audit trail of: a. All accesses to the element security controlled data b. Users/processes/elements requesting access to clement security controlled data a. C. Data access/manipulation operations performed on security controlled data a. C. Data access/manipulation operations performed on security controlled data a. Unsuccessful access to security controlled data a. Unsuccessful access attempt to the clement security controlled data a. Unsuccessful access attempt to the clement security controlled data by unauthorized users/elements/processes f. Detected computer system viruses and worms g. Actions taken to contain or destroy a virus ESN-1430#A Security The ESN shall provide the following security event functions: a. Event detection b. Event reporting c. Event logging SMC-6315#B 4990 Security The LSM shall perform, as needed, security audit trails within its element.	EOSD2510#A		security						
a. All accesses to the element security controlled data b. Users/processes/elements requesting access to element security controlled data c. Data access/manipulation operations performed on security controlled data d. Date and time of access to security controlled data e. Usus cessful access attempt to the element security controlled data by unauthorized users/elements/processes f. Detected computer system viruses and worms g. Actions taken to contain or destroy a virus ESN-1430#A 5250 ESN-1430#A 5250 SMC-6315#B 4990 security The ESN shall provide the following security event functions: a. Event detection b. Event reporting c. Event logging SMC-6310#B 4989 security The LSM shall perform, as needed, security audit trails within its element.		4847							
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SMC-6320#B	4992	security	The SMC shall perform, as needed, data and user audit trails.		C-MSS- 77000	-358	functio nal	A	The MSS accountability management service shall be capable of retrieving—data processing information (instrument used and date/time of ingest or—algorithm used (name and version) and date/time or processing) from records generated by the SDPS Data Processing subystem.
SMC-6325#B	5000	security	The LSM shall perform, as needed, data and user audit trails within its element.						
SMC-6320#A	4351	security	The SMC shall perform, as needed, data and user audit trails.	A: Full compliance					
SMC-6325#A	4352	security	The LSM shall perform, as needed, data and user audit trails within its element.						
SMC-7300#A	4359	functional	The SMC shall establish, maintain, and update the authorized users inventory to include, at a minimum: a. Users identifications b. Addresses c. Allowed privileges	A: Full Capability	C-MSS- 77005	-5317	functio nal	A	The MSS Accountability Management Service shall be capable of retrieving data processing information for a specified managed resource.
SMC-7300#B	5021	functional	The SMC shall establish, maintain, and update the authorized users inventory to include, at a minimum: a. Users identifications b. Addresses c. Allowed privileges						
SMC-6320#A	4351	security	The SMC shall perform, as needed, data and user audit trails.	A: Full compliance	C-MSS- 77010	-360	functio nal	A	The MSS accountability management service shall be capable of querying via the Management Data Access service all data processing information stored in the Management database.

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SMC-6325#A		security								
	4352		The LSM shall perform, as							
			needed, data and user audit							
			trails within its element.							
SMC-6320#B		security								
	4992		The SMC shall perform, as							
			needed, data and user audit							
			trails.							
SMC-6325#B		security								
	5000		The LSM shall perform, as							
			needed, data and user audit							
			trails within its element.							
SMC-6320#B		security			C-MSS-	-361	functio	A	The MSS accountability	
	4992		The SMC shall perform, as		77030		nal		management service shall be	
			needed, data and user audit						capable of retrieving all data	
			trails.						processing information logged	
									for a specified data item.	
SMC-6335#B		functional		B: Full						
	5004		The LSM shall, as needed,	capability						
			maintain and update a data	through						
			tracking system that, at a	performance						
			minimum:	management						
			a. Tracks data transport	tools						
			from element input to							
			element output							
			b. Allows the status of all							
			product-production							
			activities to be determined							
SMC-6325#B		security								
	5000		The LSM shall perform, as							
			needed, data and user audit							
			trails within its element.							
SMC-6330#B		functional		B: Full						
	5002		The SMC shall establish,	capability						
			maintain, and update a data							
			tracking system that, at a							
			minimum:							
			a. Tracks data transport							
			from system input to							
			system output							
			b. Allows the status of all							
			product-production							
			activities to be determined							

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SMC-6320#A		security		A: Full						
	4351		The SMC shall perform, as	compliance						
			needed, data and user audit							
			trails.							
SMC-6335#A		functional		A: Partial						
B1/10 0333///1	4355	ranctionar	The LSM shall, as needed,	compliance						
	7333		maintain and update a data	since not all						
			tracking system that, at a	sites, services						
			minimum:	and						
			a. Tracks data transport	components are						
			from element input to	in Rel. A						
			element output							
			b. Allows the status of all							
			product-production							
			activities to be determined							
SMC-6330#A		functional		A: Full						
	4354		The SMC shall establish,	compliance for						
			maintain, and update a data	sites, services,						
			tracking system that, at a	components,						
			minimum:	and products in						
			a. Tracks data transport	Rel. A						
			from system input to							
			system output							
			b. Allows the status of all							
			product-production							
			activities to be determined							
SMC-6325#A		security								
	4352		The LSM shall perform, as							
	1332		needed, data and user audit							
			trails within its element.							
SMC-6320#A		coourity	trans within its element.	A: Full	C-MSS-	362	functio	A	The MSS accountability	
SWIC-0320#A	1251	security	The CMC shall marke was as		77040	302		A		
	4351		The SMC shall perform, as	compliance	77040		nal		management service shall be	
			needed, data and user audit						capable of accepting queries for	
			trails.						the status of a particular ordered	
									data item from the SDPS Client	
									subsystem M&O operators.	
SMC-6330#A		functional		A: Full						
	4354		The SMC shall establish,	compliance for						
			maintain, and update a data	sites, services,						
			tracking system that, at a	components,						
			minimum:	and products in						
			a. Tracks data transport	Rel. A						
			from system input to							
			system output							
			b. Allows the status of all							
			product-production							
			activities to be determined							
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SMC-6335#A		functional		A: Partial			
SWIC-0333#A	4055	Tunctional					
	4355		The LSM shall, as needed,	compliance			
			maintain and update a data	since not all			
			tracking system that, at a	sites, services			
			minimum:	and			
			a. Tracks data transport				
				components are			
			from element input to	in Rel. A			
			element output				
			b. Allows the status of all				
			product-production				
			activities to be determined				
			activities to be determined				
SMC-6325#A		security					
	4352		The LSM shall perform, as				
			needed, data and user audit				
			trails within its element.				
CLAC COOUR		•.	trans within its cicinciit.				
SMC-6320#B	40	security					
	4992		The SMC shall perform, as				
			needed, data and user audit				
			trails.				
SMC-6325#B		security					
SNIC-0323πD	5000	security	The LCM shall manfarms as				
	5000		The LSM shall perform, as				
			needed, data and user audit				
			trails within its element.				
SMC-6335#B		functional		B: Full			
	5004		The LSM shall, as needed,	capability			
	3004						
			maintain and update a data	through			
			tracking system that, at a	performance			
			minimum:	management			
			a. Tracks data transport	tools			
			from element input to				
			element output				
			b. Allows the status of all				
			product-production				
			activities to be determined				
SMC-6330#B		functional		B: Full			
	5002		The SMC shall establish,	capability			
	3002			capability			
			maintain, and update a data				
			tracking system that, at a				
			minimum:				
			a. Tracks data transport				
		1	from system input to				
		1					
		1	system output				
			b. Allows the status of all				
		1	product-production				
			activities to be determined				

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IMS-1310#A	5553	interface	The IMS shall provide the capability to accept, from product requesters, product distribution status requests, retrieve the request status, and display the status to the requester for an ECS, ADC, or ODC data product.	At Release A, ECS will support this requirement by users contacting ops/user services who then utilize an ops MSS interface to obtain status.	C-MSS- 77050	9246	functio nal	Ā	The MSS accountability management service shall be capable of interfacing with the SDPS subsystems to determine the status of an ordered data item to be: a. Request in queue for processing Pending b. Request currently being processed Operator intervention c. Request successfully processed Staging d. Error in request processing Transferring e. Error in request Not Found f. Waiting for Shipment g. Shipped
SMC-6320#B	4992	security	The SMC shall perform, as needed, data and user audit trails.						
SMC-6325#B	5000	security	The LSM shall perform, as needed, data and user audit trails within its element.						
SMC-6330#B	5002	functional	The SMC shall establish, maintain, and update a data tracking system that, at a minimum: a. Tracks data transport from system input to system output b. Allows the status of all product-production activities to be determined	B: Full capability					

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SMC-6335#B	5004	functional	The LSM shall, as needed, maintain and update a data tracking system that, at a minimum: a. Tracks data transport from element input to element output b. Allows the status of all product-production activities to be determined	B: Full capability through performance management tools						
SMC-6320#A	4351	security	The SMC shall perform, as needed, data and user audit trails.	A: Full compliance						
SMC-6335#A	4355	functional	The LSM shall, as needed, maintain and update a data tracking system that, at a minimum: a. Tracks data transport from element input to element output b. Allows the status of all product-production activities to be determined	A: Partial compliance since not all sites, services and components are in Rel. A						
SMC-6325#A	4352	security	The LSM shall perform, as needed, data and user audit trails within its element.							
SMC-6330#A	4354	functional	The SMC shall establish, maintain, and update a data tracking system that, at a minimum: a. Tracks data transport from system input to system output b. Allows the status of all product-production activities to be determined	A: Full compliance for sites, services, components, and products in Rel. A						
SMC-6320#A	4351	security	The SMC shall perform, as needed, data and user audit trails.	A: Full compliance	C-MSS- 77060	364	functio nal	A	The MSS accountability management service shall be capable of reporting the requested status of an ordered data item to the SDPS Client subsystem M&O operators.	

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SMC-6335#A		functional		A: Partial			
	4355		The LSM shall, as needed,	compliance			
			maintain and update a data	since not all			
			tracking system that, at a	sites, services			
			minimum:	and			
			a. Tracks data transport	components are			
			from element input to	in Rel. A			
				III Kei. A			
			element output				
			b. Allows the status of all				
			product-production				
			activities to be determined				
SMC-6330#A		functional		A: Full			
	4354		The SMC shall establish,	compliance for			
			maintain, and update a data	sites, services,			
			tracking system that, at a	components,			
			minimum:	and products in			
				Rel. A			
			a. Tracks data transport	Kel. A			
			from system input to				
			system output				
			b. Allows the status of all				
			product-production				
			activities to be determined				
SMC-6325#A		security					
	4352		The LSM shall perform, as				
			needed, data and user audit				
			trails within its element.				
SMC-6320#B		security	trans within its ciement.				
SIVIC-0320#B	4002	security	The CMC of all more comments				
	4992		The SMC shall perform, as				
			needed, data and user audit				
			trails.				
SMC-6330#B		functional		B: Full			
	5002		The SMC shall establish,	capability			
			maintain, and update a data	- *			
			tracking system that, at a				
			minimum:				
			a. Tracks data transport				
			from system input to				
			system output				
			b. Allows the status of all				
			product-production				
			activities to be determined				

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SMC-6335#B	5004	functional	The LSM shall, as needed, maintain and update a data tracking system that, at a minimum: a. Tracks data transport from element input to	B: Full capability through performance management tools				S	
			b. Allows the status of all product-production activities to be determined						
SMC-6325#B	5000	security	The LSM shall perform, as needed, data and user audit trails within its element.						
SMC-7310#A	4360	functional	The SMC shall establish, maintain, and update the approved facility and equipment inventory to include, at a minimum: a. Facility and equipment identification b. Addresses c. Allowed accesses to privileges	A: Full capability - allowed accesses to privileges assumed under site-level service control for activated sites and components may be limited for this release.	C-MSS- 87620	-5149	functio nal	A	The Physical Configuration Management Service shall provide tight integration with the Trouble Ticketing (TT) System including allowing direct access of the TT through the Physical Configuration Management Interface.
SMC-8700#B	5030	functional	The SMC shall have the capability to generate a functional allocation report which gives the current allocation of ground segment functions to the sites and elements, including, at a minimum: a. The allocation of generation and storage function by standard product to each active archive b. The allocation of instrument responsibility to each ICC	B: Fully automated	C-MSS- 90140	-165	functio nal	A	The DBMS shall support, or be accessed via, CSS session-establishment services.

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SMC-8770#B		functional					
SWIC-8//0#B	5020	Tunctional					
	5039		The SMC shall have the				
			capability to generate, at a				
			minimum, detailed and				
			summary reports showing				
			the inventory of:				
			a. Hardware, system, and				
			scientific software				
			b. Spares and consumables				
SMC-2500#A		functional		A: Performed			
	4272		The SMC shall establish	by the staff			
			and maintain a system-	using inventory			
			wide inventory of all	system			
			hardware, scientific and	5)500111			
			system software contained				
			within ECS, including at a				
			minimum:				
			a. Hardware or software				
			identification numbers				
			b. Version numbers and				
			dates				
			c. Manufacturer				
			d. Part number				
			e. Serial number				
			f. Name and locator				
			information for software				
			maintenance				
			g. Location where				
			hardware or software is				
			used				

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			T	1		1180 00	
SMC-2500#B		functional		B: Fully			
	4741		The SMC shall establish	automated			
	7/71			automateu			
			and maintain a system-				
			wide inventory of all				
			hardware, scientific and				
			nardware, scientific and				
			system software contained				
			within ECS, including at a				
			minimum:				
			a. Hardware or software				
			identification numbers				
			b. Version numbers and				
			dates				
			c. Manufacturer				
			d. Part number				
			e. Serial number				
			f. Name and locator				
			information for software				
1			maintenance				
			g. Location where				
			hardware or software is				
			used				
SMC-8770#A		£		A: Full			
SMC-8//0#A		functional					
	4370		The SMC shall have the	capability			
			capability to generate, at a	' '			
			capability to generate, at a				
			minimum, detailed and				
			summary reports showing				
			the inventory of:				
			a. Hardware, system, and				
			scientific software				
			b. Spares and consumables				
G3 5G 0500#4			b. Spares and consumables				
SMC-8700#A		functional		A: Manual or			
	4366		The SMC shall have the	semi-automated			
1			capability to generate a				
1							
			functional allocation report				
			which gives the current				
			allocation of ground				
1			segment functions to the				
			sites and elements,				
1			including, at a minimum:				
1			meruung, at a millimulli.				
			a. The allocation of				
			generation and storage				
			function by standard				
			product to each active				
1			archive				
			b. The allocation of				
			instrument responsibility to				
1			each ICC				
			Cuch ICC				

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SMC-8800#A	4372	functional	The SMC shall have the	A: Performed	<u>C-MSS-</u>	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall	
			capability to generate	by M&O staff	<u>58000</u>		<u>nal</u>		have a graphical interface to	
			detailed and summary	using office					support the entry and editing of	
			reports indicating the	automation					contacts.	
			overall performance of the	tools.						
			ECS. At a minimum, they							
			shall include:							
			a. Scheduled versus actual							
			data collection, processing,							
			retrieval, and delivery of							
			routine data							
			b. Scheduled versus actual							
			data collection, processing,							
			retrieval, and delivery of							
			user requested data							
			c. Reason(s) for failure to							
			meet schedules							
			d. Quality of the data							
			e. Ground operations event							
			execution							
			f. Number of interactive							
			user requests and							
			timeliness of response							
			g. User feedback							
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed						
			capability to generate	by M&O staff						
			detailed and summary user	using office						
			feedback analysis reports	automation						
			describing the results of	tools.						
			analyzing user satisfaction	toois.						
			queries, including, at a							
			minimum:							
			a. User information							
			b. Type of transaction							
			c. Satisfaction statistics							
			d. User recommendations							
			e. SMC recommendations							
			c. Sivic recommendations							

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58010</u>		<u>nal</u>		provide an Application Program
			detailed and summary	using office					<u>Interface which supports</u>
			reports indicating the	automation					integration of entry of contacts
			overall performance of the	tools.					by other packages.
			ECS. At a minimum, they						<u>cy suite pueriuges.</u>
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58020</u>		<u>nal</u>		provide the ability to search
			detailed and summary	using office					historical and current contacts
			reports indicating the	automation					by category, log id, associated
			overall performance of the	tools.					trouble ticket, contact
			ECS. At a minimum, they						organization, contact home
			shall include:						DAAC, contact phone number,
			a. Scheduled versus actual						and contact id.
			data collection, processing,						and contact id.
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58030</u>		<u>nal</u>		provide the ability to maintain
			detailed and summary	using office					different contact statuses
			reports indicating the	automation					including logged, open, and
			overall performance of the	tools.					closed.
			ECS. At a minimum, they						<u>erosed:</u>
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional	The SMC shall have the	A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58040</u>		<u>nal</u>		provide the ability to store the
			detailed and summary	using office					<u>following minimum set of</u>
			reports indicating the	automation					information: unique contact id,
			overall performance of the	tools.					status, description, contact
			ECS. At a minimum, they						name, receiving operator,
			shall include:						received time, modified date,
			a. Scheduled versus actual						last modified by, and category.
			data collection, processing,						last modified by, and category.
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
	ļ		g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
	Ī		minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional	The SMC shall have the	A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall	
			capability to generate	by M&O staff	<u>58050</u>		<u>nal</u>		integrate with the framework to	
			detailed and summary	using office					allow management and	
			reports indicating the	automation					monitoring of its services.	
			overall performance of the	tools.					monitoring of its services.	
			ECS. At a minimum, they							
			shall include:							
			a. Scheduled versus actual							
			data collection, processing,							
			retrieval, and delivery of							
			routine data							
			b. Scheduled versus actual							
			data collection, processing,							
			retrieval, and delivery of							
			user requested data							
			c. Reason(s) for failure to							
			meet schedules							
			d. Quality of the data							
			e. Ground operations event							
			execution							
			f. Number of interactive							
			user requests and							
			timeliness of response							
			g. User feedback							
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed						
			capability to generate	by M&O staff						
			detailed and summary user	using office						
			feedback analysis reports	automation						
			describing the results of	tools.						
			analyzing user satisfaction							
			queries, including, at a							
			minimum:							
			a. User information							
			b. Type of transaction							
			c. Satisfaction statistics							
			d. User recommendations							
			e. SMC recommendations							

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58060</u>		<u>nal</u>		allow entry of a contact log by
			detailed and summary	using office					any operator of the system.
			reports indicating the	automation					
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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				CCR 70-0	77011			age 13	0170
SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58070</u>		<u>nal</u>		provide the capability to
			detailed and summary	using office					generate reports from its data.
			reports indicating the	automation					1
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58080</u>		<u>nal</u>		allow output of reports to either
			detailed and summary	using office					the screen, file, or printer.
			reports indicating the	automation					***************************************
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58090</u>		<u>nal</u>		provide customization features
			detailed and summary	using office					to allow sites to specify
			reports indicating the	automation					receiving operator and category.
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
			capability to generate	by M&O staff	<u>58100</u>		<u>nal</u>		allow creation of trouble ticket
			detailed and summary	using office					from contact log.
			reports indicating the	automation					
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
			analyzing user satisfaction						
			queries, including, at a						
			minimum:						
			a. User information						
			b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional		A: Performed	C-MSS-	<u>new</u>	<u>functio</u>	<u>A</u>	The Contact Log Service shall
	Ī		capability to generate	by M&O staff	<u>58110</u>		<u>nal</u>		allow access of trouble ticket
	Ī		detailed and summary	using office					from contact log.
			reports indicating the	automation					
			overall performance of the	tools.					
			ECS. At a minimum, they						
			shall include:						
			a. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			routine data						
			b. Scheduled versus actual						
			data collection, processing,						
			retrieval, and delivery of						
			user requested data						
			c. Reason(s) for failure to						
			meet schedules						
			d. Quality of the data						
			e. Ground operations event						
			execution						
			f. Number of interactive						
			user requests and						
			timeliness of response						
			g. User feedback						
SMC-8841#A	4375	functional	The SMC shall have the	A: Performed					
			capability to generate	by M&O staff					
			detailed and summary user	using office					
			feedback analysis reports	automation					
			describing the results of	tools.					
	Ī		analyzing user satisfaction						
	Ī		queries, including, at a						
			minimum:						
			a. User information						
	Ī		b. Type of transaction						
			c. Satisfaction statistics						
			d. User recommendations						
			e. SMC recommendations						

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SMC-8800#A	4372	functional	The SMC shall have the capability to generate detailed and summary reports indicating the overall performance of the ECS. At a minimum, they shall include: a. Scheduled versus actual data collection, processing, retrieval, and delivery of routine data b. Scheduled versus actual data collection, processing, retrieval, and delivery of user requested data c. Reason(s) for failure to meet schedules d. Quality of the data e. Ground operations event execution f. Number of interactive user requests and timeliness of response	A: Performed by M&O staff using office automation tools.	C-MSS- 58120	new	functio nal	A	The Contact Log Service shall allow aomatic population of create time.	
SMC-8841#A	5467	functional	g. User feedback The SMC shall have the capability to generate detailed and summary user feedback analysis reports describing the results of analyzing user satisfaction queries, including, at a minimum: a. User information b. Type of transaction c. Satisfaction statistics d. User recommendations e. SMC recommendations The IMS shall, when creating ECS user accounts, request registration approval, user account priorities, and authorized user services	A: Performed by M&O staff using office automation tools.	<u>C-MSS-</u> 75052	new	functi onal	<u>A</u>	The MSS shall provide the user with registration approval results when new ECS user accounts are requested.	